



United States of America–IAEA Nuclear Energy Management School

**Hosted by the
Government of the United States of America**

**through the
Oak Ridge National Laboratory**

Oak Ridge, Tennessee, United States of America

10–21 April 2023

Ref. No.: EVT2003993

Information Sheet

Introduction

Recognizing that the management of nuclear energy facilities over their lifecycles is challenging and complex, and that it requires both technical and managerial knowledge specific to the nuclear sector, the International Atomic Energy Agency (IAEA) has developed the Nuclear Energy Management (NEM) School programme, which focuses on the managerial and technical competencies that are required to support national nuclear energy strategies and implementation.

The NEM School is a two-week learning event that provides a broad international perspective coupled with the IAEA's specific knowledge on areas relevant to the entire nuclear energy lifecycle, e.g., nuclear licensing and regulation, nuclear energy policy, safety culture, nuclear fuel cycle, and nuclear safety, security and safeguards.

The NEM School envisages a format that can be implemented regionally in cooperation with a local university or nuclear organization acting as the host organization. The two-week NEM School targets professional working in the nuclear sector who show managerial potential and aptitude for future leadership positions.

The NEM School is organized in the United States of America by the IAEA in cooperation with the Department of Energy through the Oak Ridge National Laboratory (ORNL).

The unique features of the NEM School are:

- Topics relevant to managing nuclear power programmes will be presented by leading IAEA, international and US experts with vast expertise in nuclear projects;
- Project work will be organized during which participants will be expected to contribute by analysing case studies, working on example problems and sharing their experiences in the area of national nuclear programmes;
- Technical tours will be organized to ORNL and other nuclear facilities.

Objectives

The purpose of the NEM School is to support young professionals in the nuclear sector in enhancing managerial and technical competencies that are essential for maintaining national nuclear energy programmes.

In particular, the objectives are:

- To provide an international educational experience and an opportunity for worldwide networking with future leaders and managers of nuclear energy;
- To raise the awareness of the participants about recent developments in nuclear energy;
- To broaden the participants' understanding of key issues and challenges associated with the peaceful uses of nuclear energy;
- To introduce the participants to the leadership and managerial competencies needed to successfully implement national nuclear energy programmes.

Working Language

English

Expected Outputs

The NEM School will cover a broad range of subjects through presentations, panel discussion and case studies on the following topical areas:

- The IAEA and its services to its Member States;
- Overview of nuclear applications;
- Introduction to nuclear power and current nuclear power technologies;
- An integrated approach to human resource development and nuclear knowledge management;
- Leadership and management in nuclear organizations;
- Nuclear law;
- Nuclear safety;
- Nuclear security;
- Nuclear safeguards;
- Radioactive waste management;
- Advanced nuclear power technologies;

- New nuclear builds;
- Basic principles of nuclear power plant operation;
- The nuclear fuel cycle;
- Climate change and the economics of nuclear energy;
- Stakeholder involvement and public communication.

The perspectives of the participating countries will also be shared through presentations in which the participants will discuss nuclear energy management programmes in their home countries.

Target Audience and Participation

All applicants wishing to participate in the event have to be nominated by the relevant authorities of their countries.

In order to be nominated by an IAEA Member State, applicants are requested to send the Participation Form (Form A) to their competent national authority (e.g., Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) for onward transmission to the IAEA by 13 February 2023.

Nominated applicants from IAEA Member States are invited to take part in an online pre-liminary training course, and upon successful selection to attend the NEM School. Technical sessions, panel discussions, case studies and group project work will be organized with the participants expected to actively contribute by sharing information on their experience and national practices in the area of maintaining national nuclear programmes.

Applicants should have an appropriate background with an adequate understanding of nuclear fundamentals and managerial experience of working either in the government or the nuclear sector.

Online preliminary, testing and background materials will be provided to all nominated applicants prior to the NEM School through the IAEA's Cyber Learning Platform for Network Education and Training (CLP4NET).

Selected participants will be informed in due course of the procedures to be followed with regard to administrative and financial matters.

Expenditures and Grants

No registration fee is charged to participants.

The IAEA is generally not in a position to bear the travel and other costs of participants of the event. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally a limited number of participants per country.

The application for financial support should be made using the **Grant Application Form (Form C)**, which has to be stamped, signed and submitted by the competent national authority to the IAEA together with the **Participation Form (Form A)** by **13 February 2023**.

IAEA Contacts

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretary and correspondence on other matters related to the event to the Administrative Secretary.